

Termination codes

Stop codes are for errors prior to being able to manipulate files, and occur if something untoward happens before output (.log) file is set up.

- 100 program called with no arguments (no input file)
- 101 code for a free burning fire should not be reachable
- 102 project file does not exist
- 103 total file name length including path >256
- 104 one of the output files is not accessible (for example, if a cfast case with this name is already running)
- 105 error writing to an output file (openoutputfiles)
- 106 a system fault! Applies to all open/close pairs once the model is running
- 107 incompatible options
- 108 not used
- 109 cannot find/open a file - exehandle
- 110 error in handling the *status* input/output

Error codes output to the .log file

from 1 to 99 are from the routine which parses the input and will be reported in the .log file.

Codes of 1 to 100 errors in the argument count of a key word

Key Word	Error
TIMES	1
TAMB	2
EAMB	3
LIMO2	4
THERMAL	5
OBJECT	5 (same)
MAINF	7
COMPA	8
HVENT	10
EVENT	11
VVENT	23
WIND	24
INTER	25
MVENT	12
MVOPN	26
MVDCT	28
MVFAN	29
OBJECT	32
CJET	34
STPMAX	35
DETECT	34
VHEAT	37
ONEZ	39
TARGET	41
HALL	46
ROOMA	47
ROOMH	51
DTCHE	55
SETP	56
HHEAT	58
HEATF	65

Errors from key word parsing

compa	Compartment out of range, ierror = 9
inter	Not a defined compartment, ierror = 26 Specification for interface height is outside of allowable range, ierror = 72 Compartments must be defined in pairs, ierror = 73
mvopn	Specified node number too large for this system ierror, = 27
mvfan	Fan curve has incorrect specification, ierror = 30 Exceeded allowed number of fans, ierror = 31
object	Object must be assigned to an existing compartment, ierror = 33 Fire type out of range, ierror = 63
detect	Invalid DETECTOR specification, ierror = 35 A referenced compartment is not yet defined, ierror = 36
vheat	VHEAT has specified a non-existent compartment, ierror = 38
target	Too many targets are being defined, ierror = 42 The compartment specified by TARGET does not exist, ierror = 43 Invalid TARGET METHOD, ierror = 44 Invalid equation type specified in TARGET, ierror = 45
rooma	Compartment specified by ROOMA does not exist, ierror = 49, or 50
roomh	Compartment specified by ROOMH is not defined, ierror = 52 ROOMH error on data line, ierror = 53 Data on the ROOMA (or H) line must be positive, ierror = 54
hheat	HHEAT specification error in compartment pairs, ierror = 61 Error in fraction for HHEAT, ierror = 62
mainf	The fire must be assigned to an existing compartment, ierror = 64
heatf	The heat source must be assigned to an existing compartment, ierror = 66
mvent	Compartment has not been defined, ierror = 67 Exceed one of the array bounds, ierror=68 (external), 69 (internal) and 70 (fan)
event	Undefined vent type, ierror = 71
setp	Trying to reset the "SETP" parameters file, ierror = 57 The "SETP" does not exists, ierror = 74 Incorrect file reference, ierror = 75 Cannot read the parameter file, ierror = 76 Unsupported parameter, ierror = 77
hvent	vent parameter outside of allowable range, ierror = 78
vvent	vent parameter(s) outside of allowable range, ierror = 79

From 200 to 300 are errors which occur during data initialization

inputobject	(read the object databases), too many targets being defined, ierror = 201 cannot find the object file in either the data or executable directory, ierror = 215 exceed array bounds for object fire, ierror = 208 (nv) object name requested does not match the name in the object file, ierror = 210 normal vector cannot be zero, ierror = 216
inputtpp	(read the thermophysical database) cannot find the thermophysical properties file, ierror = 202 exceeded size of thermophysical properties data structure, ierror = 203 data format in the thermophysical data file is not correct, ierror = 204
initwall	name is not defined in the thermophysical database, ierror = 205
readinputfile	version error, ierror=206
readcsvfile	exceed array bounds for input, ierror = 207 (nrow)
inputmainfire	exceed array bounds for object fire, ierror = 209 (nv) cannot find the mainfire.o file in either the data or executable directory, ierror = 200
spreadsheetnormal	exceed number of entries in normal output, ierror = 211 (maxhead)
hvinit	fan not properly defined (mvent command), ierror =212
inittarg	target points to a non-existent compartment, ierror=213 target center out of range (outside compartment), ierror=214
setp	file not found, ierror =217
ambient	external or internal ambient temperature is outside of the range -50 to +100 C, ierror = 218, outside of allowable range, ierror = 219; warning if above 0.5, fail on greater than 0.8
radiation fraction	
inputobject	specified object is too small, ierror = 220 heat release rate per m ³ is too large, ierror = 221

Errors while running the model

Errors 400 and above are failures from while the model is running. In particular, 610 through 685 are failures when IDID<0 from DASSL/RESID.